

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/234,208B

DATE: 01/26/2001

TIME: 16:22:43

Input Set : A:\Pto.amc

Output Set: N:\CRF3\01262001\I234208B.raw

SEQUENCE LISTING

2 (1) GENERAL INFORMATION:

4 (i) APPLICANT: Doherty, Joni Kristin, Gail M. Clinton, and John P. Adelman

6 (ii) TITLE OF INVENTION: HER-2 BINDING ANTAGONISTS

8 (iii) NUMBER OF SEQUENCES: 9

10 (iv) CORRESPONDENCE ADDRESS:

11 (A) ADDRESSEE: DAVIS WRIGHT TREMAINE LLP

12 (B) STREET: 1501 Fourth Avenue, 2600 Century Square

13 (C) CITY: Seattle

14 (D) STATE: Washington

15 (E) COUNTRY: U.S.A.

16 (F) ZIP: 98101

18 (v) COMPUTER READABLE FORM:

19 (A) MEDIUM TYPE: Floppy disk

20 (B) COMPUTER: PC compatible

21 (C) OPERATING SYSTEM: Windows95

22 (D) SOFTWARE: Word

24 (vi) CURRENT APPLICATION DATA:

C--> 25 (A) APPLICATION NUMBER: US/09/234,208B

C--> 26 (B) FILING DATE: 20-Jan-1999

27 (C) CLASSIFICATION:

29 (viii) ATTORNEY/AGENT INFORMATION:

30 (A) NAME: Davison, Barry L.

31 (B) REGISTRATION NUMBER: P47,309

32 (C) REFERENCE/DOCKET NUMBER: 49321-1

34 (ix) TELECOMMUNICATION INFORMATION:

35 (A) TELEPHONE: 206 628-7621

36 (B) TELEFAX: 206 628-7699

38 (2) INFORMATION FOR SEQ ID NO: 1:

40 (i) SEQUENCE CHARACTERISTICS:

41 (A) LENGTH: 79

42 (B) TYPE: amino acid

43 (C) STRANDEDNESS: single

44 (D) TOPOLOGY: unknown

W--> 45 (ii) MOLECULE TYPE: HER-2 ECD antagonist

46 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

48 Gly Thr His Ser Leu Leu Pro Arg Pro Ala Ala Val Pro Val Pro Leu

49 5 10 15

50 Arg Met Gln Pro Gly Pro Ala His Pro Val Leu Ser Phe Leu Arg Pro

51 20 25 30

52 Ser Trp Asp Leu Val Ser Ala Phe Tyr Ser Leu Pro Leu Ala Pro Leu

53 35 40 45

54 Ser Pro Thr Ser Val Pro Ile Ser Pro Val Ser Val Gly Arg Gly Pro

55 50 55 60

56 Asp Pro Asp Ala His Val Ala Val Asn Leu Ser Arg Tyr Glu Gly

57 65 70 75

59 (2) INFORMATION FOR SEQ ID NO: 2:

RAW SEQUENCE LISTING

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\01262001\I234208B.raw.

```

61      (i) SEQUENCE CHARACTERISTICS:
62          (A) LENGTH: 419
63          (B) TYPE: amino acid
64          (C) STRANDEDNESS: single
65          (D) TOPOLOGY: unknown
66      (ii) MOLECULE TYPE: polypeptide
67      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
68 Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu
69      5      10      15
70 Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys
71      20      25      30
72 Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
73      35      40      45
74 Leu Tyr Gln Gly Cys Gln Val Gln Gly Asn Leu Glu Leu Thr Tyr
75      50      55      60
76 Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
77      65      70      75      80
78 Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu
79      85      90      95
80 Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
81      100     105     110
82 Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro
83      115     120     125
84 Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
85      130     135     140
86 Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
87      145     150     155     160
88 Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn
89      165     170     175
90 Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys
91      180     185     190
92 His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser
93      195     200     205
94 Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys
95      210     215     220
96 Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys
97      225     230     235     240
98 Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu
99      245     250     255
100 His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val
101      260     265     270
102 Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg
103      275     280     285
104 Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu
105      290     295     300
106 Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln
107      305     310     315     320
108 Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys
109      325     330     335
110

```

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```

111 Pro Cys Ala Arg Gly Thr His Ser Leu Leu Pro Arg Pro Ala Ala Val
112              340              345              350
113 Pro Val Pro Leu Arg Met Gln Pro Gly Pro Ala His Pro Val Leu Ser
114              355              360              365
115 Phe Leu Arg Pro Ser Trp Asp Leu Val Ser Ala Phe Tyr Ser Leu Pro
116              370              375              380
117 Leu Ala Pro Leu Ser Pro Thr Ser Val Pro Ile Ser Pro Val Ser Val
118 385              390              395              400
119 Gly Arg Gly Pro Asp Pro Asp Ala His Val Ala Val Asn Leu Ser Arg
120              405              410              415
121 Tyr Glu Gly

```

123 (2) INFORMATION FOR SEQ ID NO: 3:

125 (i) SEQUENCE CHARACTERISTICS:

126 (A) LENGTH: 19

127 (B) TYPE: nucleic acid

128 (C) STRANDEDNESS: single

129 (D) TOPOLOGY: unknown

W--> 130 (ii) MOLECULE TYPE: oligonucleotide

131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

133 TGAGCACCAT GGAGCTGGC 19

135 (2) INFORMATION FOR SEQ ID NO: 4:

137 (i) SEQUENCE CHARACTERISTICS:

138 (A) LENGTH: 22

139 (B) TYPE: nucleic acid

140 (C) STRANDEDNESS: single

141 (D) TOPOLOGY: unknown

W--> 142 (ii) MOLECULE TYPE: oligonucleotide

143 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

145 TCCGGCAGAA ATGCCAGGCT CC 22

147 (2) INFORMATION FOR SEQ ID NO: 5:

148 (i) SEQUENCE CHARACTERISTICS:

149 (A) LENGTH: 22

150 (B) TYPE: nucleic acid

151 (C) STRANDEDNESS: single

152 (D) TOPOLOGY: unknown

W--> 153 (ii) MOLECULE TYPE: oligonucleotide

154 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

156 AACACAGCGG TGTGAGAAGT GC 22

158 (2) INFORMATION FOR SEQ ID NO: 6:

160 (i) SEQUENCE CHARACTERISTICS:

161 (A) LENGTH: 21

162 (B) TYPE: nucleic acid

163 (C) STRANDEDNESS: single

164 (D) TOPOLOGY: unknown

W--> 165 (ii) MOLECULE TYPE: oligonucleotide

166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

168 ATACCGGGAC AGGTCAACAG C 21

170 (2) INFORMATION FOR SEQ ID NO: 7:

171 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/234,208B
DATE: 01/26/2001
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Input Set : A:\Pto.amc
Output Set: N:\CRF3\01262001\I234208B.raw

```
172          (A) LENGTH: 20
173          (B) TYPE: nucleic acid
174          (C) STRANDEDNESS: single
175          (D) TOPOLOGY: unknown
W--> 176      (ii) MOLECULE TYPE: oligonucleotide
177      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
179 TCTGGGTACC CACTCACTGC 20
181 (2) INFORMATION FOR SEQ ID NO: 8:
182      (i) SEQUENCE CHARACTERISTICS:
183          (A) LENGTH: 22
184          (B) TYPE: nucleic acid
185          (C) STRANDEDNESS: single
186          (D) TOPOLOGY: unknown
W--> 187      (ii) MOLECULE TYPE: oligonucleotide
188      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
190 TTCACACTGG CACGTCCAGA CC 22
192 (2) INFORMATION FOR SEQ ID NO: 9:
193      (i) SEQUENCE CHARACTERISTICS:
194          (A) LENGTH: 27
195          (B) TYPE: nucleic acid
196          (C) STRANDEDNESS: single
197          (D) TOPOLOGY: unknown
W--> 198      (ii) MOLECULE TYPE: oligonucleotide
199      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
201 GCACGGATCC ATAGCAGACT GAGGAGG 27
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/234,208B

DATE: 01/26/2001

TIME: 16:22:44

Input Set : A:\Pto.amc

Output Set: N:\CRF3\01262001\I234208B.raw

L:25 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:26 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:45 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:130 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:142 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
L:153 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:165 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:176 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:187 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:198 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9

1642

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/234,208B
 DATE: 01/19/2001
 TIME: 15:04:12

Input Set : A:\ES.txt
 Output Set: N:\CRF3\01192001\I234208B.raw

Does Not Comply
 Corrected Diskette Needed

SEQUENCE LISTING

2 (1) GENERAL INFORMATION:
 4 (i) APPLICANT: Doherty, Joni Kristin, Gail M. Clinton, and John P. Adelman
 6 (ii) TITLE OF INVENTION: HER-2 BINDING ANTAGONISTS
 8 (iii) NUMBER OF SEQUENCES: 9
 10 (iv) CORRESPONDENCE ADDRESS:
 11 (A) ADDRESSEE: DAVIS WRIGHT TREMAINE LLP
 12 (B) STREET: 1501 Fourth Avenue, 2600 Century Square
 13 (C) CITY: Seattle
 14 (D) STATE: Washington
 15 (E) COUNTRY: U.S.A.
 16 (F) ZIP: 98101
 18 (v) COMPUTER READABLE FORM:
 19 (A) MEDIUM TYPE: Floppy disk
 20 (B) COMPUTER: PC compatible
 21 (C) OPERATING SYSTEM: Windows95
 22 (D) SOFTWARE: Word
 24 (vi) CURRENT APPLICATION DATA:
 C--> 25 (A) APPLICATION NUMBER: US/09/234,208B
 C--> 26 (B) FILING DATE: 20-Jan-1999
 27 (C) CLASSIFICATION:
 29 (vii) ATTORNEY/AGENT INFORMATION:
 30 (A) NAME: Davison, Barry L.
 31 (B) REGISTRATION NUMBER: P47,309
 32 (C) REFERENCE/DOCKET NUMBER: 49321-1
 34 (ix) TELECOMMUNICATION INFORMATION:
 35 (A) TELEPHONE: 206 628-7621
 36 (B) TELEFAX: 206 628-7699

ERRORED SEQUENCES

147 (2) INFORMATION FOR SEQ ID NO: 5:
 148 (i) SEQUENCE CHARACTERISTICS:
 149 (B) TYPE: nucleic acid
 150 (C) STRANDEDNESS: single
 151 (D) TOPOLOGY: unknown
 W--> 152 (ii) MOLECULE TYPE: oligonucleotide
 153 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 E--> 155 AACACAGCGG TGTGAGAAGT GC 22

insert hard return

VERIFICATION SUMMARY

DATE: 01/19/2001

PATENT APPLICATION: US/09/234,208B

TIME: 15:04:13

Input Set : A:\ES.txt

Output Set: N:\CRF3\01192001\I234208B.raw

L:25 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:26 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:45 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1, Value=[HER-2 ECD antagonist]
L:130 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3, Value=[oligonucleotide]
L:142 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4, Value=[oligonucleotide]
L:0 M:200 E: Mandatory Header Field missing, Seq 5, [(A) LENGTH:]
L:152 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5, Value=[oligonucleotide]
L:155 M:204 E: No. of Bases differ, LENGTH:Input:0 Counted:22 SEQ:5
L:164 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6, Value=[oligonucleotide]
L:170 M:220 C: Keyword misspelled or invalid format, [(A) LENGTH:]
L:0 M:200 E: Mandatory Header Field missing, Seq 7, [(B) TYPE:]
L:177 M:220 C: Keyword misspelled or invalid format, [(A) LENGTH:]
L:0 M:200 E: Mandatory Header Field missing, Seq 8, [(B) TYPE:]
L:179 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8, Value=[oligonucleotide]
L:185 M:220 C: Keyword misspelled or invalid format, [(A) LENGTH:]
L:0 M:200 E: Mandatory Header Field missing, Seq 9, [(B) TYPE:]
L:188 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9, Value=[oligonucleotide]